The MAC 2000 Performance features a mechanized framing system and gobo animation module as well as a gobo and effect wheel, CMY system and much more.

- 1200 W short arc discharge lamp
- CMY color mixing system
- Variable CTC
- 5 indexable rotating gobos plus open
- Motorized zoom and focus
- Motorized beam expander
- Mechanical dimming
- Gobo animation wheel with full movement / direction control
- Variable frost, 9-facet prism
- Motorized iris
- Automated framing system
- Strobe effect up to 10 Hz, pulse effects, instant open and blackout
- Pan and tilt range of 540°/267°
- Variable fan control for quieter operation
- Modular design for easy maintenance and servicing
- Electronic ballast with hot lamp restrike and flicker free light

Physical

Length: 408 mm (16.1 in.)
Width: 490 mm (19.3 in.)
Height: 743 mm (29.3 in.), head straight up
Weight: 39.5 kg (87.1 lbs.)

Lamp

Type: 1200 W short-arc discharge
Fitted as standard: Philips MSR 1200 SA/DE Gold
Color temperature: 6000 K
CRI (Color rendering index): >85
Average lifetime: 750 hours
Hot restrike: Yes
Socket: Double-ended SFc 10-4 with key
Ballast: Electronic
Approved alternative lamp(s): Osram HTI 1200 D7/60 SharXS

Dynamic Effects

Color mixing: CMY, independently variable 0 - 100%
Color temperature control: 0 - 178 mireds, continuously variable
Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Rotating gobo wheel: 5 interchangeable gobos + open, indexing, continuous gobo rotation, shake
Four-blade framing system: Blade tilting +/- 31°, frame rotation +/- 45°
Effect wheel: Wide-angle converter lens, non-rotating 9-facet prism, variable frost
Mechanical dimmer: 0 - 100%
Shutter: Strobe effect up to 10 Hz, pulse effects, instant open and blackout
Iris: 15 - 100% diameter, pulse effects
Focus: 2 m (6.6 ft.) to infinity
Zoom: Motorized
Pan: 540°
Tilt: 267°

Optics

Beam angle: 12° - 31° (18° - 41° with beam expander effect selected), cut-off angles

Control and Programming

DMX channels: 28/31
Setting and addressing: Control panel with display
16-bit control: Rotating gobos, pan & tilt
Movement control options: Tracking and vector
Protocol: USITT DMX512/1990
Receiver: Opto-isolated RS-485
Firmware update: Serial upload via DMX link

Construction

Color(s): Black
Housing: UV-resistant fiber-reinforced composite
Reflector: Glass, cold light
Protection rating: IP20

Gobos

Outside diameter: 37.5 mm (1.5 in.) +0/- 0.3 mm (0.01 in.)
Maximum image diameter: 30 mm (1.2 in.)
Recommended glass: 1.1 mm (0.04 in.), high-temperature Borofloat or better with dichroic or enhanced aluminum coating
Maximum glass thickness: 7 mm (0.3 in.), up to 3 mm (0.1 in.) can be spring-mounted, 3 mm (0.1 in.) - 7 mm (0.3 in.) must be glued in holder
Recommended metal: 0.5 mm (0.02 in.) aluminum

Gobo Animation Wheel

Outside diameter: 133 mm (5.2 in.) +0/- 0.25 mm (0.01 in.)
Image outer diameter: 130 mm (5.1 in.)
Image inner diameter: 16 mm (0.6 in.)
Construction: 0.5 mm (0.02 in.) aluminum, magnetic mounting

Installation

Mounting points: 4 pairs of 1/4-turn locks, 45° orientation possible
Orientation: Any

Connections

AC power input: 3 m (9.8 ft.) integral cable without power plug
DMX data in/out: 3-pin and 5-pin locking XLR

Electrical

AC power: 100-120/208-240 V nominal, 50/60 Hz
Power supply unit: Auto-ranging electronic switch-mode
Main fuse: 15 AT (x 2, for use with 208-240 V power)
Main fuse: 20 AT (x 2, for use with 100-120 V power)

Thermal

Cooling: Filtered forced air (temperature-regulated)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F): 140° C (284° F)
Total heat dissipation (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 5230 / 5120 BTU/hr

Approvals

EU EMC: EN 50 081-1, EN 50 082-1
EU safety: EN 60598-1, EN 60598-2-17
Canadian safety: CSA C22.2 No. 166
US safety: ANSI/UL 1573

Included Items

Philips MSR 1200 SA/DE Gold lamp (installed): P/N 97010310
MAC 2000 Performance Module (installed)
Realistic stars gobo (E size): P/N 43036008
Cloud gobo (E size): P/N 43036007
Radial breakup gobo animation wheel (installed): P/N 62400211
Cloud breakup animation wheel: P/N 62400213
Dot breakup animation wheel: P/N 62400214
Tangential breakup animation wheel: P/N 62400215
Spiral breakup animation wheel: P/N 62400216
Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001
User manual: P/N 35000103

Accessories

Linear breakup gobo animation wheel: P/N 62400223
Triangle break gobo animation wheel: P/N 62400225
Elliptical breakup gobo animation wheel: P/N 62400221
Flicker wheel gobo animation wheel: P/N 62400222
Coarse radial breakup gobo animation wheel: P/N 62400224
Coarse tangential breakup gobo animation wheel: P/N 62400226
T-shaped omega bracket with quarter-turn fasteners: P/N 91602008
G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
Super Truss 20.5" mounting plate with half-couplers: P/N 91602014
Swing-wing truss mounting plate with half-couplers: P/N 91602010
Double flightcase (SIP) for MAC 2000 Series: P/N 91510170

Ordering Information

MAC 2000 Performance II in cardboard box: P/N 90205465

Photometric Data

Standard , Zoom at Minimum	Efficiency: 19% Half-peak angle: 8.3° Total output: 20700 lm
Standard , Zoom at Median	Efficiency: 18% Half-peak angle: 12.7° Total output: 19200 lm
Standard , Zoom at Maximum	Efficiency: 18% Half-peak angle: 20.5° Total output: 19300 lm
With Beam Expander lens applied, Standard , Zoom at Minimum	Efficiency: 21% Half-peak angle: 12.3° Total output: 23000 lm
With Beam Expander lens applied, Standard , Zoom at Median	Efficiency: 21% Half-peak angle: 15.8° Total output: 22900 lm
With Beam Expander lens applied, Standard , Zoom at Maximum	Efficiency: 20% Half-peak angle: 25.8° Total output: 21600 lm

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